a1.9:526-550
0B31
6
73270
Agri.
36.6

U. S. DEPARTMENT OF AGRICULTURE,

DIVISION OF PUBLICATIONS.

FARMERS' BULLETINS

Nos. 526–550

WITH CONTENTS AND INDEX.

PREPARED UNDER THE SUPERVISION OF

JOS. A. ARNOLD,

EDITOR AND CHIEF.

WASHINGTON:
GOVERNMENT PRINTING OFFICE.
1913.

USDA
LIB

132299

CONTENTS.

FARMERS' BULLETIN No. 526.—MUTTON AND ITS VALUE IN THE DIET.	Page.
Introduction	5
Composition and nutritive value	5
Digestibility of mutton	6
Relative economy in the use of mutton	7
The flavor of mutton	7
The fat of mutton and its characteristics	8
Care of mutton in the home	10
Cuts of mutton	11
Judging mutton	13
Waste in various cuts	13
Losses of weight in cooking mutton and other meats	14
Effect of heat upon the various constituents of mutton	14
Methods of cooking mutton	15
Methods of measuring	15
Making of soups and broths	15
Mutton stews	17
Boiling, steaming, and braising	19
Roasted mutton	23
Broiling	25
Frying	26
Warmed-over mutton	27
Mutton with fruits	30
Corned mutton and its uses	31
Mutton sausages	31
Summary	32
FARMERS' BULLETIN No. 527.—EXPERIMENT STATION WORK, LXXIV.	
Peonies	5
Advantages of spraying potatoes	7
Marketing wool	11
Retail buying of beef	14
Tobacco dips for sheep scab	19
Sewage disposal for rural homes	19
FARMERS' BULLETIN No. 528.—HINTS TO POULTRY RAISERS.	
Selection of a breed	5
Artificial and natural incubation and brooding	8
Poultry houses and fixtures	9
Feeding	10
Egg production	10
Marketing	11
Lice and mites	11
Common diseases and treatment	11
Rules	12

FARMERS' BULLETIN No. 529.—VETCH GROWING IN THE SOUTH ATLANTIC STATES.

Page.

Introduction 5
Kinds of vetch cultivated in the South Atlantic States 5
Fertilizing value of vetch 8
Time for planting vetch 9
Quantity of seed required 10
Inoculation of vetch 10
Production of vetch hay 13
Production of vetch silage 14
Palatability of vetch forage 14
Production of vetch seed 14
Vetch honey 16
Rotations with vetch 16
Experiences of farmers with vetch 19
Summary 20

FARMERS' BULLETIN No. 530.—IMPORTANT POULTRY DISEASES.

Introduction 3
How to prevent disease 4
Lice powders and their application 5
Disinfectants and their application 6
Cholera and cholera-like diseases 7
Roup or contagious catarrh 9
Diphtheria 12
Bird pox (chicken pox) 15
Blackhead (entero-hepatis) 16
Tuberculosis 19
Aspergillosis 21
Coccidiosis 22
White comb (favus) 24
"Going light" (loss of weight) 25
Infectious diseases of young chicks 26
Worms 32
Mange (scabies) 33
Scaly leg (mange of the leg) 34
Crop bound (impacted crop) 35
Inflammation of the stomach or intestines 36
Limberneck 36
Liver disease 36

FARMERS' BULLETIN No. 531.—LARKSPUR, OR "POISON WEED."

Introduction 5
Larkspurs of the western United States 6
Symptoms of larkspur poisoning 10
Effect of larkspur poisoning upon organs of the body 11
Period during which poisoning occurs 11
Quantity of larkspur necessary to poison 12
Poisoning of horses 12
Poisoning of sheep 12
Treatment 12
Medicinal remedies 13
Pasturing sheep on present cattle ranges 14
Summary 15

FARMERS' BULLETIN No. 532.—EXPERIMENT STATION WORK, LXXV. Page.
Garden sweet peas. 5
Winter-flowering sweet peas. 9
Southern bur clover. 13
Improving the type of sheep for the Southwest. 18
Combating flies. 22
FARMERS' BULLETIN No. 533.—GOOD SEED POTATOES AND HOW TO PRODUCE THEM.
Introduction. 3
What constitutes good seed. 6
Pure seed. 6
Seed from productive plants. 7
Immature seed. 10
Uniformity in size and shape of tubers. 10
Development of high-grade seed potatoes. 11
Influence of potato storage on the quality of the seed. 14
Treatment of seed for scab. 15
Summary. 16
FARMERS' BULLETIN No. 534.—DURUM WHEAT.
Introduction. 5
Characteristics. 5
Varieties. 6
Area to which adapted. 8
Yields. 10
Comparative value. 13
Uses. 14
Culture. 15
Improvement of the crop. 16
FARMERS' BULLETIN No. 535.—SUGAR AND ITS VALUE AS FOOD.
Introduction. 7
Chemical composition of sugars. 7
Sweet materials other than sugar. 11
Commercial glucose and other commercial products made from starch. 11
Sources of cane sugar. 12
Quality of sugar from different sources. 14
Purity of sugar. 16
Food value of sugar. 16
Digestion of sugar. 17
Sugar as a food for muscular work. 17
Sugar as a fat former. 20
Sugar as a flavor. 20
Food value of table sirups and molasses. 21
Nutritive value of sugar cane. 23
Practical use of sugar in the ordinary diet. 23
Sugar in the dietaries of children. 30
Comparative cost of sugar as food. 31
General conclusions. 31
FARMERS' BULLETIN No. 536.—STOCK POISONING DUE TO SCARCITY OF FOOD.
Introduction. 3
Poisoning probable only when feed is scarce. 3
Conclusions. 4

FARMERS' BULLETIN NO. 537.—HOW TO GROW AN ACRE OF CORN. Page.
Introduction 5
What kind of corn to grow 5
When to take up corn improvement work 7
Selecting seed for the acre 8
Preparing the seed for planting 9
Selecting an acre for corn 10
Fertilizing the acre 11
Preparation of the seed bed 12
Planting 14
Combating cutworms 15
Thinning 16
Cultivation 16
Selecting seed from the acre 18
Drying and caring for seed corn 19
Determining the yield 20
Conclusion 21

FARMERS' BULLETIN NO. 538.—SITES, SOILS, AND VARIETIES FOR CITRUS GROVES IN THE GULF STATES.
Introduction 7
Climate 7
Soil 8
Site of the grove 9
Varieties 12

FARMERS' BULLETIN NO. 539.—PROPAGATION OF CITRUS TREES IN THE GULF STATES.
Introduction 3
The nursery 3
Propagation by cuttings 9
Budding 10

FARMERS' BULLETIN NO. 540.—THE STABLE FLY.
Introductory 5
Distribution and abundance 5
The severe outbreak of the stable fly in 1912 7
Hosts 8
Character of injury and losses 9
Action of animals attacked 11
Summary of life history 12
Development and habits 15
Seasonal history 19
Agricultural practices in relation to fly abundance 20
Natural control 21
Artificial control 23

FARMERS' BULLETIN NO. 541.—FARM BUTTER MAKING.
Cause of change in milk and cream 5
Cleanliness 6
Temperatures 9
Methods of controlling temperature of milk and cream 10
The ripening of cream 11
Starters 11
Methods of determining the ripeness of cream 12
Coloring the butter 13
Churning 13

FARMERS' BULLETIN No. 541.—FARM BUTTER MAKING—Continued. Page.
Washing the butter ... 16
Salting the butter ... 16
Working the butter ... 17
Printing and packing the butter ... 18
Marketing the butter ... 18
Dairy equipment ... 19
Conclusions ... 27

FARMERS' BULLETIN No. 542.—CULTURE, FERTILIZATION, AND FROST PROTECTION OF CITRUS GROVES IN THE GULF STATES.
Introduction ... 5
Preparation of the land ... 5
Setting out trees ... 6
Catch crops ... 7
Pruning ... 7
Fertilizers ... 8
Protection against cold ... 12
Top-working ... 18
Crown-working ... 19

FARMERS' BULLETIN No. 543.—COMMON WHITE GRUBS.
The outbreak of 1912 ... 5
Possibilities of an outbreak in 1915 ... 6
Life history and habits ... 8
Grubs likely to be mistaken for common white grubs ... 12
Natural enemies ... 13
Methods of control ... 16

FARMERS' BULLETIN No. 544.—POTATO-TUBER DISEASES.
Introduction ... 3
The principal diseases and their control ... 4
The choice of seed potatoes ... 14
What form of legal regulation of the seed trade is best? ... 15
Field inspection and certification ... 16

FARMERS' BULLETIN No. 545.—CONTROLLING CANADA THISTLES.
Range of the Canada thistle ... 5
Description of plant ... 5
Other weeds mistaken for the Canada thistle ... 6
Methods of distribution and means of preventing it ... 7
Methods of killing Canada thistles ... 8
Summary ... 13
State laws relating to Canada thistles ... 14

FARMERS' BULLETIN No. 546.—HOW TO MANAGE A CORN CROP IN KENTUCKY AND WEST VIRGINIA.
Selection of land ... 5
Preparation of seed bed ... 5
Fertilizer ... 6
Seed ... 6
Planting ... 6
Cultivation ... 7
Harvesting ... 7
Sources of information regarding corn growing ... 7

FARMERS' BULLETIN NO. 547.—THE YELLOW-FEVER MOSQUITO. Page.
How to recognize the yellow-fever mosquito 3
Different names by which it has been called 4
Domesticity of the species 4
Habits of the adult 5
Breeding habits 8
Geographic distribution 12
Original home 13
Discovery of the relations of this mosquito to yellow fever 13
Subsequent demonstration 16
Remedies 16

FARMERS' BULLETIN NO. 548.—STORING AND MARKETING SWEET POTATOES.
Introduction 3
Construction of a sweet-potato storage house 4
Material required for a 20 by 40 foot storage house 9
Varieties of sweet potatoes for market 10
Harvesting sweet potatoes 11
Marketing sweet potatoes 13
Summary 14

FARMERS' BULLETIN NO. 549.—EXPERIMENT STATION WORK, LXXVI.
The farm water supply 5
Storage of potatoes 9
The meadow lark from the farmers' standpoint 15
Egg-laying contests and breeding for egg production 16
Sprouting oats for poultry 18
Carbolic acid for contagious abortion in cattle 20
Cooling cream without ice 22

FARMERS' BULLETIN NO. 550.—CRIMSON CLOVER: GROWING THE CROP.
Introduction 3
History and present distribution of crimson clover 3
Requirements for obtaining and maintaining a stand of crimson clover 5
Various methods of seeding crimson clover 9
Treatment of crimson clover stands after seeding 15

Page.
3
4
4
5
8
12
13
13
16
16

3
4
9
10
11
13
14

5
9
15
16
18
20
22

3
3
5
9
15